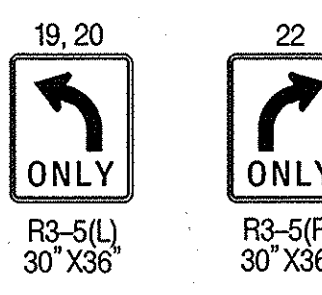


MD 450 IS ASSUMED TO RUN
IN AN EAST-WEST DIRECTION

EXISTING SIGNS



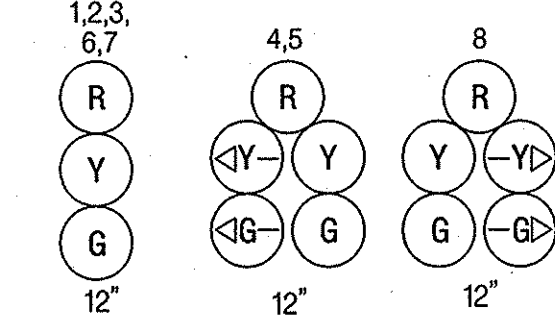
17
Chinquapin Rnd Rd
D-3(2)
60\"/>

21
West St
D-3(2)
48\"/>

EXISTING SIGNS TO BE REMOVED



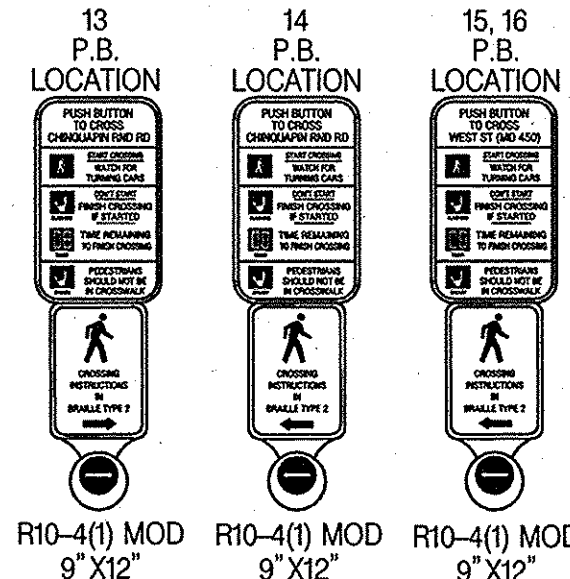
EXISTING TRAFFIC SIGNAL HEADS



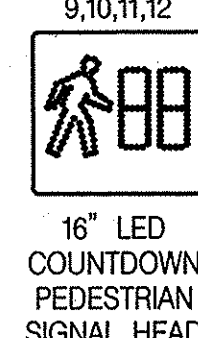
EXISTING TRAFFIC SIGNAL HEADS TO BE REMOVED



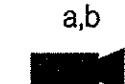
PROPOSED PEDESTRIAN PUSH BUTTON SYSTEM



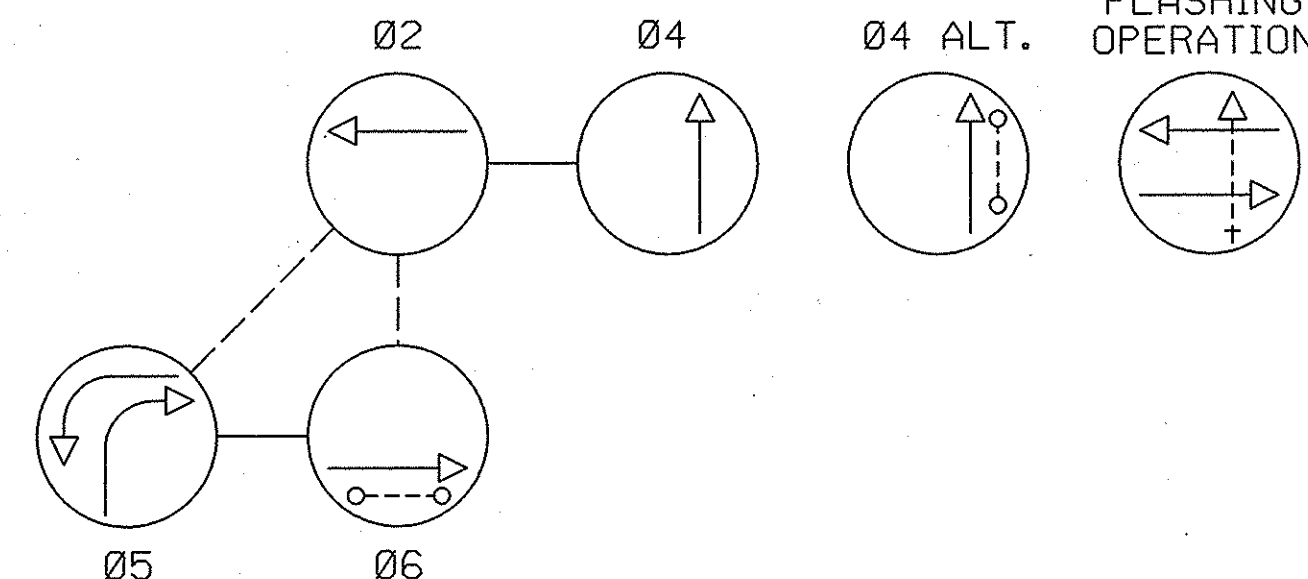
PROPOSED SIGNALS



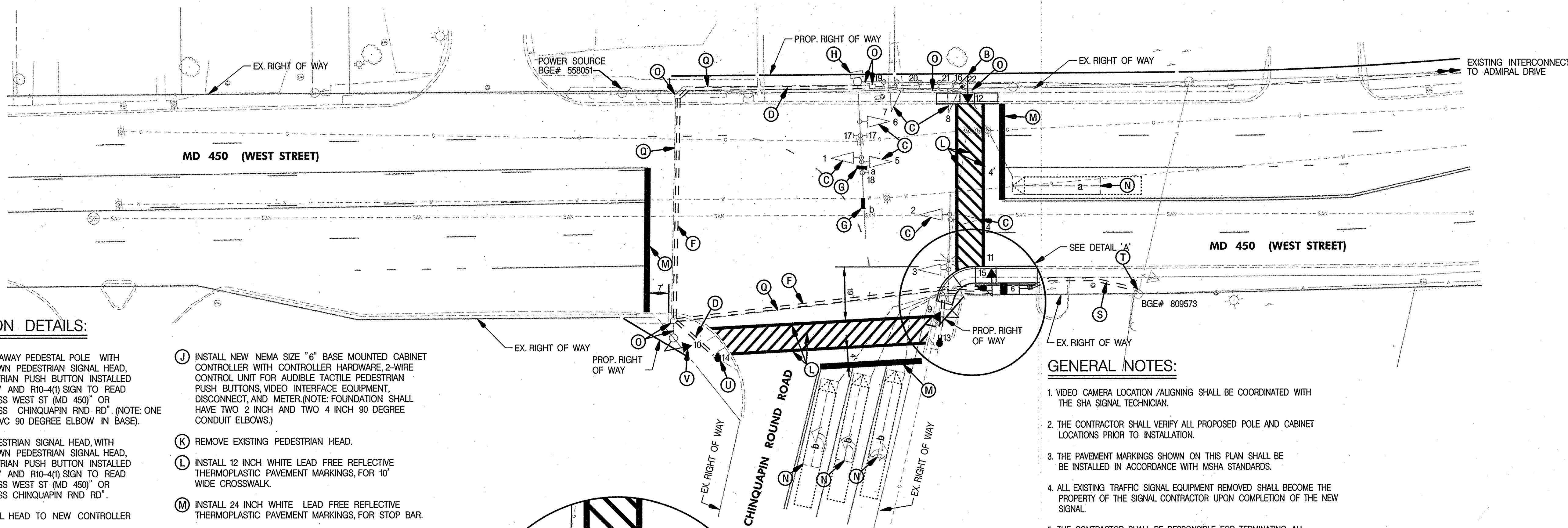
PROPOSED VIDEO DETECTION



NEMA PHASING



NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS:

- (A) INSTALL 10 FOOT BREAKAWAY PEDESTAL POLE WITH 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON INSTALLED WITH VIBRATING ARROW AND R10-4(1) SIGN TO READ "PUSHBUTTON TO CROSS WEST ST (MD 450)" OR "PUSHBUTTON TO CROSS CHINQUAPIN RND RD". (NOTE: ONE 3 INCH SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
- (B) REPLACE EXISTING PEDESTRIAN SIGNAL HEAD, WITH 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON INSTALLED WITH VIBRATING ARROW AND R10-4(1) SIGN TO READ "PUSHBUTTON TO CROSS WEST ST (MD 450)" OR "PUSHBUTTON TO CROSS CHINQUAPIN RND RD".
- (C) REWIRE EXISTING SIGNAL HEAD TO NEW CONTROLLER CABINET.
- (D) INSTALL 3 INCH SCHEDULE 80 PVC CONDUIT- TRENCHED.
- (E) INSTALL TWO 4 INCH SCHEDULE 80 PVC CONDUIT- TRENCHED.
- (F) INSTALL 4 INCH SCHEDULE 80 PVC CONDUIT- SLOTTED.
- (G) INSTALL VIDEO DETECTION CAMERA TO EXISTING MAST ARM.
- (H) REMOVE EXISTING POLE MOUNTED CONTROLLER CABINET AND EQUIPMENT. DISCONNECT AND REMOVE EXISTING OVERHEAD POWER SOURCE FEED.
- (J) INSTALL NEW NEMA SIZE "6" BASE MOUNTED CABINET CONTROLLER WITH CONTROLLER HARDWARE, 2-WIRE CONTROL UNIT FOR AUDIBLE TACTILE PEDESTRIAN PUSH BUTTONS, VIDEO INTERFACE EQUIPMENT, DISCONNECT, AND METER. (NOTE: FOUNDATION SHALL HAVE TWO 2 INCH AND TWO 4 INCH 90 DEGREE CONDUIT ELBOWS.)
- (K) REMOVE EXISTING PEDESTRIAN HEAD.
- (L) INSTALL 12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, FOR 10' WIDE CROSSWALK.
- (M) INSTALL 24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, FOR STOP BAR.
- (N) EXISTING LOOP DETECTOR TO BE ABANDONED.
- (O) MAINTAIN EXISTING HANDHOLE/CONDUIT.
- (P) INSTALL 200 AMP, 1 PH, 3 WIRE METER SERVICE PEDESTAL.
- (Q) ABANDON EXISTING CONDUIT AFTER NEW SIGNAL IS IN OPERATION.
- (R) INSTALL 2 INCH SCHEDULE 80 PVC CONDUIT- TRENCHED.
- (S) INSTALL 4 INCH PVC CONDUIT-TRENCHED, STUB UP TO EXISTING UTILITY POLE BASE.
- (T) PROPOSED POWER SOURCE TO BE SUPPLIED BY BGE. INSTALL 4" RISER AND WEATHERHEAD TO EXISTING UTILITY POLE.
- (U) INSTALL 4 FOOT BREAKAWAY PEDESTAL POLE (CUT 10 FOOT PEDESTAL POLE TO 4 FEET) WITH NEW AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON SYSTEM WITH VIBRATING ARROW AND R10-4(1) SIGN TO READ "PUSHBUTTON TO CROSS WEST ST (MD 450)" OR "PUSHBUTTON TO CROSS CHINQUAPIN RND RD". (NOTE: ONE 3 INCH SCHEDULE 80 PVC 90 DEGREE ELBOW IN BASE).
- (V) REPLACE EXISTING SIGNAL HEAD WITH 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD.

GENERAL NOTES:

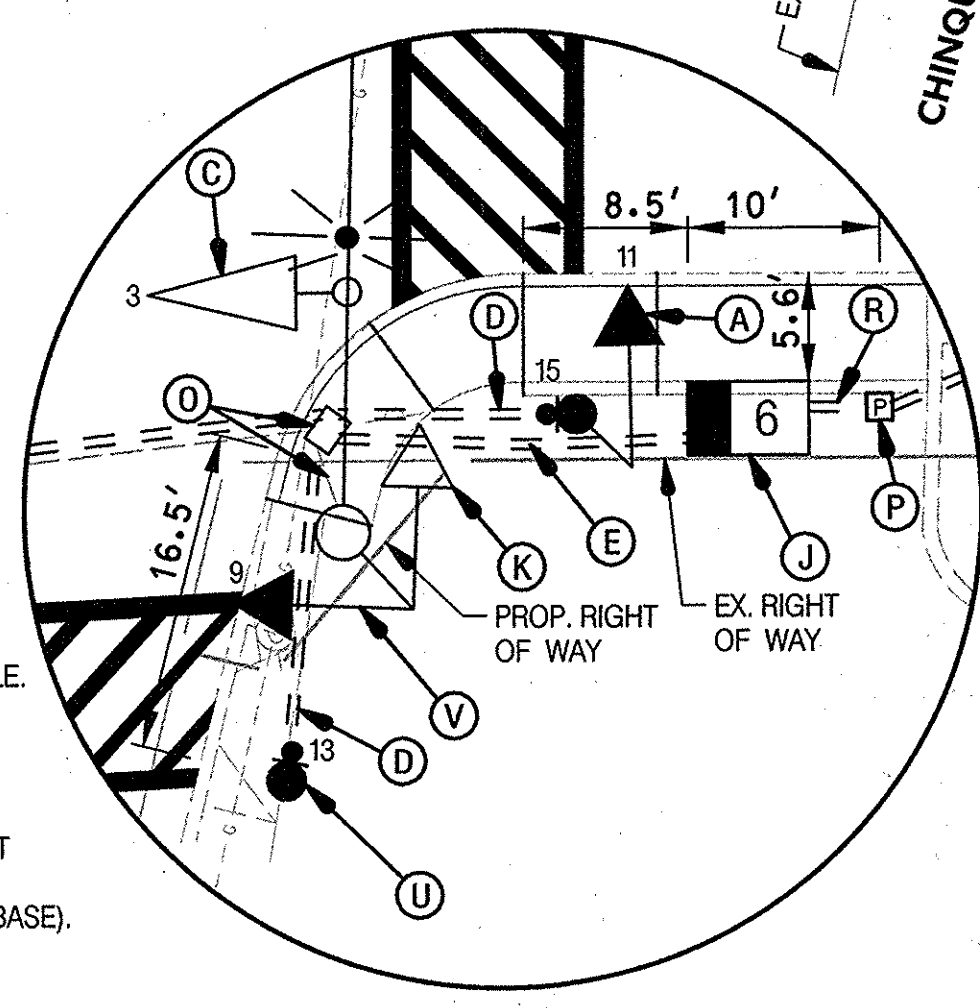
- VIDEO CAMERA LOCATION /ALIGNING SHALL BE COORDINATED WITH THE SHA SIGNAL TECHNICIAN.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- THE PAVEMENT MARKINGS SHOWN ON THIS PLAN SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL CONTACT ED RODENHIZER AT SIGNAL SHOP (410)787-7650 TO DELIVER APS EQUIPMENT FOR TESTING.

GEOMETRIC LEGEND

===== EXISTING
===== PROPOSED

UTILITY LEGEND

—SD—SD— STORM DRAIN
—G—G— GAS MAIN
—W—W— WATER MAIN
—S—S— SEWER MAIN
—E—E— ELECTRIC CABLES
—A—A— AERIAL CABLES
—T—T— TELEPHONE CABLES
—F—F— FIBER-OPTIC



DETAIL 'A'

REVISION C CONSULTANT

WALLACE, MONTGOMERY & ASSOCIATES, LLP
CIVIL AND STRUCTURAL ENGINEERS
110 West Road, Suite 300
Towson, Maryland 21204
(410) 494-9093, (410) 825-5714 Fax
www.WallaceMontgomery.com

APPROVALS

TEAM LEADER: **ORIGINAL**

ASST. DIR. CHIEF: **FILE**

DIVISION CHIEF: **FILE**

OFFICE DIRECTOR: **FILE**

REVISIONS

(C) REPLACE PED SIGNALS W/LED COUNTDOWN & APS. INSTALL VIDEO DETECTION. 12/2006. TMS NO. H822. J. SHA. NO. AA4495177. MJA. *can 10/29/2006 10:24:17 AM*

B ADD SEPARATE R.T. LANE ON MD 450 07/15/2004 TMS NO. G424

WTB	KP	MAR	DAZ	BRK
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SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 450 (WEST STREET) AT
CHINQUAPIN ROUND ROAD**
ANNAPOLIS, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 10/25/2006 CONTRACT NO. AA-361-501-576

DESIGNED BY: COUNTY ANNE ARUNDEL
DRAWN BY: DAVE A. LOGMILE 02045010.71
CHECKED BY: DAVE A. T.I.M.S. NO. H822
F.A.P. NO. TOD NO.

DRAWING NO. **TS-1415C** SHEET NO. 31 OF 37